

Shipping Samples to SMC Water Quality Lab



You've got mail!

So you've collected your water samples...

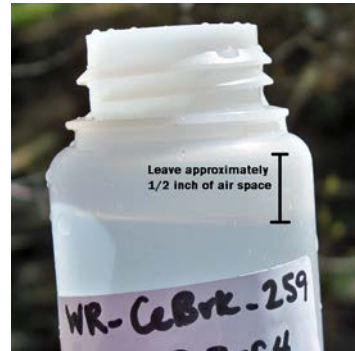


Make sure samples are properly labeled!

So you've collected your water samples...

Return to School:

- *Freeze small nutrient bottles (125mL)*



- *Refrigerate large TSS bottles (1L)*



Shipping Samples from Vermont

Step 1:

- Contact Katie to tell her that you need to ship samples (kchang@smcvt.edu) and give her an approximate weight
- Katie will create a UPS Shipping Label and email it to you

UPS Internet Shipping: View/Print Label

1. Ensure that there are no other tracking labels attached to your package.
2. Fold the printed label at the solid line below. Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
3. **GETTING YOUR SHIPMENT TO UPS**
Customers without a Daily Pickup
 - Schedule a same day or future day Pickup to have a UPS driver pickup all of your Internet Shipping packages.
 - Hand the package to any UPS driver in your area.
 - Take your package to any location of The UPS Store[®], UPS Drop Box, UPS Customer Center, UPS Alliances (Office Depot[®] or Staples[®]) or Authorized Shipping Outlet near you. Items sent via UPS Return ServicesSM (including via Ground) are also accepted at Drop Boxes.
 - To find the location nearest you, please visit the 'Find Locations' Quick link at ups.com.**Customers with a Daily Pickup**
 - Your driver will pickup your shipment(s) as usual.

FOLD HERE

17 LBS RS DWT17,17,17 SHIP TO: MEREDITH SIMARD 802-540-1044 VT EPSCOR STREAMS PROJECT 82 UNIVERSITY PLACE COOK PHYSICAL SCIENCE BUILDING 532 BURLINGTON VT 05405	1 OF 1 	VT 054 0-02 	UPS NEXT DAY AIR TRACKING #: 1Z 8YX 434 84 9207 7766 	 <small>THE UPS STORE</small>
--	---	---	--	---

BILLING: P/P
DESC: Water Samples
RETURN SERVICE

Step 2:

- Print out the prepaid UPS shipping label

Step 3:

- Put all the water samples (may include soil samples too) inside a ThermoSafe cooler
- Add 4-5 frozen cold packs in Ziploc bags



Step 4:

- Seal the box with packing tape
- Tape UPS Return label to the top of the box

Step 5:

- Take the box to your local UPS store for delivery to SMC



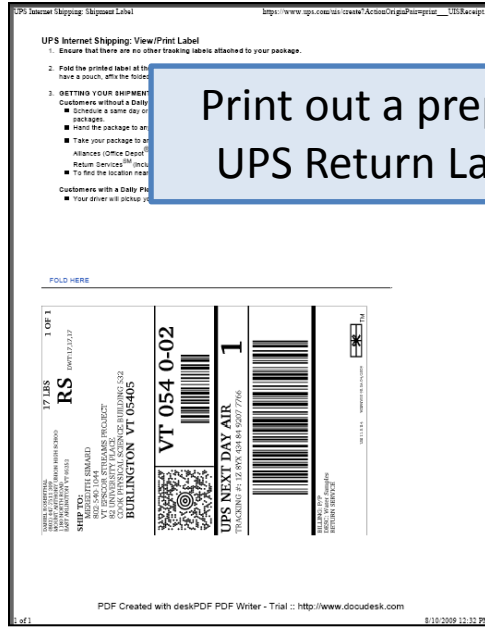
1.

Notify Katie through email

Shipment of Water Samples to SMC Water Quality Laboratory

2.

Print out a prepaid UPS Return Label



3.

Put all samples inside a **ThermoSafe** cooler box along with 4-5 frozen cold packs



4.

Tape UPS Return Label to the top



5.

Bring the box to your local UPS Store for delivery to SMC



Shipping Samples from Puerto Rico

- Take unsealed package to UPS and ship to:
VT EPSCoR RACC
Attn: Katie Chang
Cheray 126
One Winooski Park Box 137
Colchester, VT 05439
- No longer able to charge shipments to EPSCoR
Account #

Questions???

Using the iButton



Download iButton Software

- http://www.maximintegrated.com/products/ibutton/software/tmex/download_drivers.cfm
 - Called One Wire Viewer
 - free
 - Not for Macs

Connecting iButton to Computer



Connecting iButton to Computer



Flat side of iButton towards engraved "i"



How to Take out the iButton from the USB Shuttle



Python Software - demo

- Prompt for USB port
- Software interface overview
- Programming iButton (Start a Mission)

Sensor Field Data Sheet

2014-2015

Stream Name:	Site Code:
Investigators:	Date:

Temperature Sensor

A. Only applicable at deployment visit:

Serial Number	
Time Interval	120 mins
Initial Program Launch Date and Time	
Deployment Date and Time	
Retrieval Date and Time	
Name of .csv data file	

B. Field Notes performed every 2-3 weeks:

Sign of damage or disturbance? Is the sensor buried in sand or covered with debris or fouled with algae?

Is the sensor dewatered?

Stage Sensor

Serial Numbers	
Total Depth at Sensor	
Depth from Stream Bottom to Sensor	
Depth from Stream Surface to Sensor	

Sign of damage or disturbance? Is the sensor buried in sand or covered with debris or fouled with algae?

Is the sensor dewatered?

Other Comments: (map, problems, observations, etc)

Install in stream and wait...



- Check on iButton every 2-3 weeks and fill out Sensor Field Data Sheet
- Remove at end of field season

Downloading iButton Data - demo

1. Connect iButton to computer
2. View graph of data
3. Save, Export, and Email Data

Using Data

- Right-click on graph to save:



Copy Data to Clipboard (comma-separated)
Copy Data to Clipboard with Labels
Copy Data to Clipboard without Labels
Save Data to .csv File
Rescale Graph

- When naming file, include: Site Code

Example:

LCD_BrtltBrk_139.csv

- Email .csv files to Katie with subject line of: “High School temp”
- Open in Excel!

Questions???



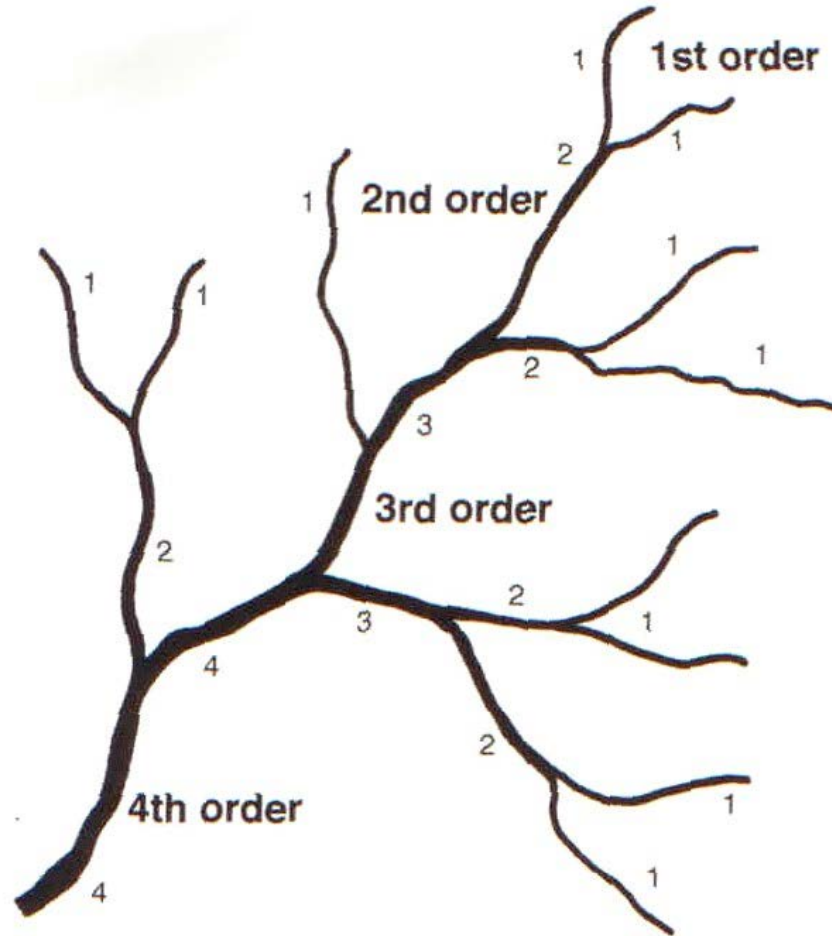
Picture Credit:
Rick Levey, VT DEC

Site Selections



Stream Sites Criteria

- Should be
 - 2nd or 3rd order streams
 - Have riffles (avoid slow meanders)
 - Easy access (landowner permission)
 - Consider land use (contrasting sites)



Procedure for New Sites:

1. Explore your area in Google Earth or Google Maps or Atlas (now)
 2. Explore sites in person!
 3. Meet CWDD staff at site to confirm and collect latitude and longitude with GPS unit
 4. Wait and receive site code, percentages of land use, and watershed kml file in email
- Do not start sampling until you have received your site code!

Always Use Site Codes!

Site Code = LCD_EngBrk_117

Translation:

- Lake Champlain Direct
- Englesby Brook
- Elevation 117ft

Now:

- Explore your watershed and the stream sites map:
<http://www.uvm.edu/~epscor/new02/?q=node/901>
- Or on Google Earth, Google Maps, VT Atlas, paper atlas
- Check out the database:
www.uvm.edu/epscor/redirect/streamsprojectdata
- Schedule a site visit with Katie
- Update Shipping Address on Katie's document